Maximum Permissible Exposure Evaluation
FCC ID: 2BA6U-P6

1. Client Information

Applicant	:	Huizhou Ximingbo Technology Co., Ltd
Address	:	Room 06, 14th Floor, Junhao International Commercial and Residential Building, No. 2 Wuyi Avenue, Chenjiang Street, Zhongkai High tech Zone,China
Manufacturer	:	Huizhou Ximingbo Technology Co., Ltd
Address	:	Room 06, 14th Floor, Junhao International Commercial and Residential Building, No. 2 Wuyi Avenue, Chenjiang Street, Zhongkai High tech Zone,China

2. General Description of EUT

EUT Name	:	P6	
Models No.	:	P6, P4, L1, Y2, G5	
Model Different	:	All of these models are the same, on the same PCB, layout and circuit, the difference is the model name.	
Product Description	:	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz Bluetooth LE 4.2: 2402-2480MHz
		Number of Channel:	802.11b/g/n(HT20):11 channels 40 channels for Bluetooth LE
		Antenna Gain:	2.04 dBi PCB Antenna
Power Rating		Input: AC 120V/60Hz	
Software Version	:	N/A	
Hardware Version	:	GV_T31_XHR_V2.1-20220430	
Connecting I/O Port(S)	:	Please refer to the User's Manual	
Remark	:	the evaluation report used the EUT(202305-0002-3-2#).	

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MPE Calculations for WIFI

1. **EUT Operation Condition:**
   Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

2. **Exposure Evaluation:**
   Equation from page 18 of OET Bulletin 65, Edition 97-01
   $$S=(PG)/4\pi R^2$$
   Where
   S: power density
   P: power input to the antenna
   G: power gain of the antenna in the direction of interest relative to an isotropic radiator.
   R: distance to the center of radiation of the antenna

3. **Simultaneous transmission MPE Considerations**
   According to KDB447498: All transmitters and antennas in the host must be either evaluated for MPE compliance, by measurement or computational modeling, or qualify for the standalone MPE test exclusion in section 7.1. Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0.
   This means that:
   ∑ of MPE ratios ≤ 1.0
4. **Test Result:**

   2.4G WiFi & Bluetooth LE worst reported.

Mode	Frequency (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm^2) [S]	Limit of Power Density (mW/ cm^2) (S)
Bluetooth LE	2402	3.919	3±1	4	2.04	20	0.0008	1
	2440	3.939	3±1	4	2.04	20	0.0008	1
	2480	3.655	3±1	4	2.04	20	0.0008	1

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802.11b	2412	10.011	10±1	11	2.04	20	0.0040	1
	2437	9.769	9±1	10	2.04	20	0.0032	1
	2462	10.254	10±1	11	2.04	20	0.0040	1
802.11g	2412	7.135	7±1	8	2.04	20	0.0020	1
	2437	7.081	7±1	8	2.04	20	0.0020	1
	2462	8.08	8±1	9	2.04	20	0.0025	1
802.11 n(HT20)	2412	7.143	7±1	8	2.04	20	0.0020	1
	2437	6.882	6±1	7	2.04	20	0.0016	1
	2462	8.28	8±1	9	2.04	20	0.0025	1

5. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/ cm^2)
300-1,500	F/1500
1,500-100,000	1.0

For 2.4WIFI:2412~2462 MHz and Bluetooth LE
MPE limit S: 1mW/ cm^2
The MPE is calculated as ***0.0040*** **< *limit 1mW / cm^2***. So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

Note

For a more detailed features description, please refer to the RF Test Report.

6. Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

-----END OF REPORT-----